ABSTRACT OF THE DISCLOSURE

In a process for managing a plurality of data items contained in a plurality of pages which are sequentially arranged in accordance with predetermined relationships, information on an amount of available space in each of the plurality of pages is stored. When a first data item is inserted into or deleted from a first page among the plurality of pages, an amount of available space in each of second and third pages is acquired based on the above information, where the second page precedes the first page in the sequential arrangement of the plurality of pages, and the third page follows the first page in the sequential arrangement. Before insertion of the first data item into the first page or after deletion of the first data item from the first page, at least one second data item contained in the first page is moved to the second page or the third page according to the amount of available space in each of the second and third pages.